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Ser 1813EG/00722

04 JUN 1991

From: Commander, Western Division, Naval Facilities Engineering Command
To: Distribution:

Subj: WELL DECOMMISSIONING METHOD, NAVAL AIR STATION, ALAMEDA

Encl: PRC letter of 28 May 1991

1. Enclosed is a description of the well decommissioning method proposed by our contractor, PRC Environmental Management, Inc. from their subcontractor, Guess Drilling.
2. Please review the proposed procedure for decommissioning abandoned wells at Naval Air Station, Alameda and provide concurrence or comments by 14 June 1991.
3. For further information please contact Mr. Ernesto Galang, Code 1813EG at Commercial (415) 244-2560.

original signed by:

RICHARD SERAYDARIAN
Head, Installation Restoration Section

Distribution:
California Department of Health Services (Attn: Eileen Hughes)
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FILE: ALAMEDA/NAS

557



May 28, 1991

Ms. Bella G. Dizon
Department of the Navy
Western Division - Code 1813BD
Naval Facilities Engineering Command
900 Commodore Way, Building 101
San Bruno, CA 94066-0720

CLEAN Contract No. N62474-88-D-5086
Contract Task Order 0095

Subject: Well Decommissioning Method
Naval Air Station, Alameda

Dear Ms. Dizon:

The subcontractor procurement process for well decommissioning at the referenced site has been completed. Guess Drilling, Inc. (Guess) has been selected to perform the work. DHS comments to the Well Decommissioning Plan require that the method and specifications to be used for well decommissioning be submitted to the DHS for review prior to initiating work. The method and specifications outlined by Guess are listed below.

1. The PVC well casing will be perforated with a casing knife. Due to the fact that well construction details are not available for all wells, the casing will be perforated throughout the depth of the well.
2. Cement bentonite grout (containing 5% bentonite) will be tremmied down the inside of the casing. If ground water in the well is displaced to the surface, the water will be pumped into drums. The drums will be labeled and moved to the storage area. Water samples will be collected from the drums at a later date and analyzed for disposal purposes.
3. When the grout mixture in the well reaches ground level, a cap with a 1-inch diameter hole will be glued to the top of the casing, and a pump will be attached to the cap. Pressure will be applied to the grout mixture which will force the grout mixture through the casing perforations into the filter pack. The total volume of grout mixture emplaced in the well will not exceed 10% of the volume of the base hole.

4. After the desired amount of grout has been pumped into the well, the cap will be removed and grout will be brought to the surface again.

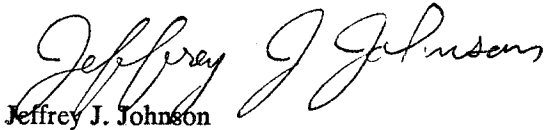
A requirement for well decommissioning in the permit issued by Alameda County is to remove the upper two feet of casing, seal, and filter pack. For health and safety purposes, it is desirable to minimize contact with contaminated soil and ground water, and therefore, delete this requirement. In a phone conversation between PRC and Alameda County on May 24, 1991, Alameda County verbally agreed to delete this requirement for well decommissioning. Instead of removing the upper two feet of well materials, the wells will be pressure grouted to the surface.

Some of the monitoring wells to be decommissioned are in San Francisco County. In the last few months San Francisco County has implemented a new program which requires permits for well decommissioning. PRC is currently in the process of obtaining these permits.

Attached is a description of the well decommissioning method proposed by Guess. PRC will begin to decommission wells at the referenced site as soon as permits from San Francisco County are obtained and concurrence from DHS is obtained.

If you have any questions, please call me at (916) 852-8300.

Sincerely,



Jeffrey J. Johnson
Geological Engineer

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MAY 20 1991

Guess Drilling

May 15, 1991

PROCESSED
MAY 20 1991

Geotechnical Underground
Exploratory Support Service

P.R.C. Environmental Management, Inc.

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415.457.0188

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San Francisco, CA 94105

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ATTN: Mr. Van M. Leichter

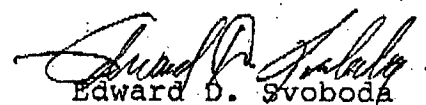
GUESS DRILLING, INC. proposes the following method of decommissioning eighteen (18) monitoring wells at the Alameda Naval Air Station, CA.

1. Perforate the well casing with a casing knife.
2. 5% bentonite and cement grout will be mixed and trimmed down the inside of the casing, pushing the water inside, to ground level, where it will be pumped into drums. The drums will then be moved to a designated site within the base.
3. When the grout is at ground level, a cap with a 1" diameter hole will be glued to the top of the casing, and a pump will be attached to the cap. The grout will be pushed through the casing and sand pack, not to exceed 10% of the volume of the base hole.
4. After the desired amount of grout has been pumped into the casing, the cap will be removed and grout will once again be brought to the surface.

We have successfully used this method many times in constructing and decommissioning old wells. Please call if I can answer any further questions.

Sincerely,

GUESS DRILLING, INC.


Edward D. Svoboda
President